

# BRIAN MARKS

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## SKILLS

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### Computer Science and Programming

- Programming in Python, PHP, Perl, JavaScript, Ksh, Awk, C#, C++, Java, VBS, Assembly, and MATLAB
- Object oriented programming
- Database design, normalization, and queries in MySQL and MSSQL
- Game programming, design, and AI in XNA using C#
- Cryptographic techniques using Crypto++ and Python's cryptography library
- Basic Android app design in Java
- Management and tool design in ClearCase environment
- Agile software engineering with scrum methodology

### Projects

- Social networking site called 'Wildbook' for outdoor events and activities
- 2D platformer game with complicated 'boss' AI called 'Acid Island'
- Web-based computer hardware resale and compatibility application
- Block file system using Lind-fuse and RePy
- Cryptographic tool to use frequency analysis to decrypt cipher texts similar to WEP

### Other Relevant Coursework

- Computational Physics, Numerical Analysis, Mathematical Physics
- Theory of Computation, Design and Analysis of Algorithms, and Discrete Math
- Artificial Intelligence, Introduction to Databases, Data Analysis, Multivariable Calculus

## Experience

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June 2015 – August 2015	<b>Software Development Environment Intern, Alcatel-Lucent – Wireless Division</b> <ul style="list-style-type: none"><li>• Develop Unix and Windows utilities to assist developers working on LTE</li><li>• Used Perl, Ksh, and Awk to develop several tools to sift through ClearCase and develop statistics of usage of view and vob data</li><li>• Used PHP, JavaScript, and HTML to develop a site to create custom reports from csv files</li><li>• Used Ksh and Awk to develop tools to provide information about hosts in Unix environment</li></ul>
November 2014 – Present	<b>Peer Tutoring, New York University</b> <ul style="list-style-type: none"><li>• Tutor students in the areas on Math, Science, and Computer Science</li></ul>
June 2013 – December 2014	<b>Technical Consultant, Ford Foundation</b> <ul style="list-style-type: none"><li>• Develop small scripts and medium sized applications to assist in server management, application deployment, and report generating</li><li>• Develop and maintain database systems and Microsoft servers</li><li>• Manage various security software such as Bit9, CarbonBlack, and Symantec Antivirus</li></ul>
September 2010 – June 2012	<b>Help Desk Support, NYC Department of Education</b> <ul style="list-style-type: none"><li>• Provide technical support to various network, hardware, and software related issues</li><li>• Considered the team leader and mentor among the other student workers</li></ul>

## EDUCATION

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May 2016 (Exp.)	Bachelors in Computer Science – Minor in Mathematics <i>NYU School of Engineering</i> – GPA: 3.745
June 2012	Advanced Regents Diploma with Honors, Herbert H. Lehman High School – Rank 3